

Smart-UPS® RT Features and Benefits

AVAILABILITY

Automatic internal bypass Supplies utility power to the connected loads in the event of a UPS overload condition or fault.

Scalable runtime Allows quick addition of more runtime when needed.

Intelligent battery management Provides higher availability through intelligent precision-charging that maximizes battery performance, life, and reliability.

Hot-swappable batteries Ensures clean, uninterrupted power to protected equipment throughout battery replacement.

Automatic restart of loads after UPS shutdown Automatically starts up the connected equipment upon the return of utility power.

MANAGEABILITY

InfraStruXure™ Manager Compatible Enables centralized management via APC's InfraStruXure Manager.

Network manageable Provides remote management of the UPS over the network.

SmartSlot Customize UPS capabilities with management cards.

LED status indicators Quickly understand UPS status with indicators.

Serial connectivity Provides management of the UPS via a serial port.

ADAPTABILITY

Plug-and-Play external batteries Ensures clean, uninterrupted power to the loads when adding extra runtime to the UPS.

Rack/Tower convertible Protects the initial investment in the UPS when migrating from tower to rack-mount environment.

Flash-upgradeable firmware Allows implementation of new firmware upgrades.

SERVICEABILITY

User-replaceable batteries Enables simple upgrades and replacement of the batteries.

Automatic self-test Ensures early detection of potential problems by periodic testing of UPS components.

Predictive failure notification Provides early-warning fault analysis ensuring proactive component replacement.

Disconnected battery notification Warns when a battery is not available to provide backup power.

Audible alarms Provides notification of changing utility power and UPS conditions.

PROTECTION

Frequency and voltage regulation Preserves battery life and maximizes runtime by correcting poor frequency and voltage conditions without discharging the battery.

Power conditioning Protects connected loads from surges, spikes, lightning, and other power disturbances.

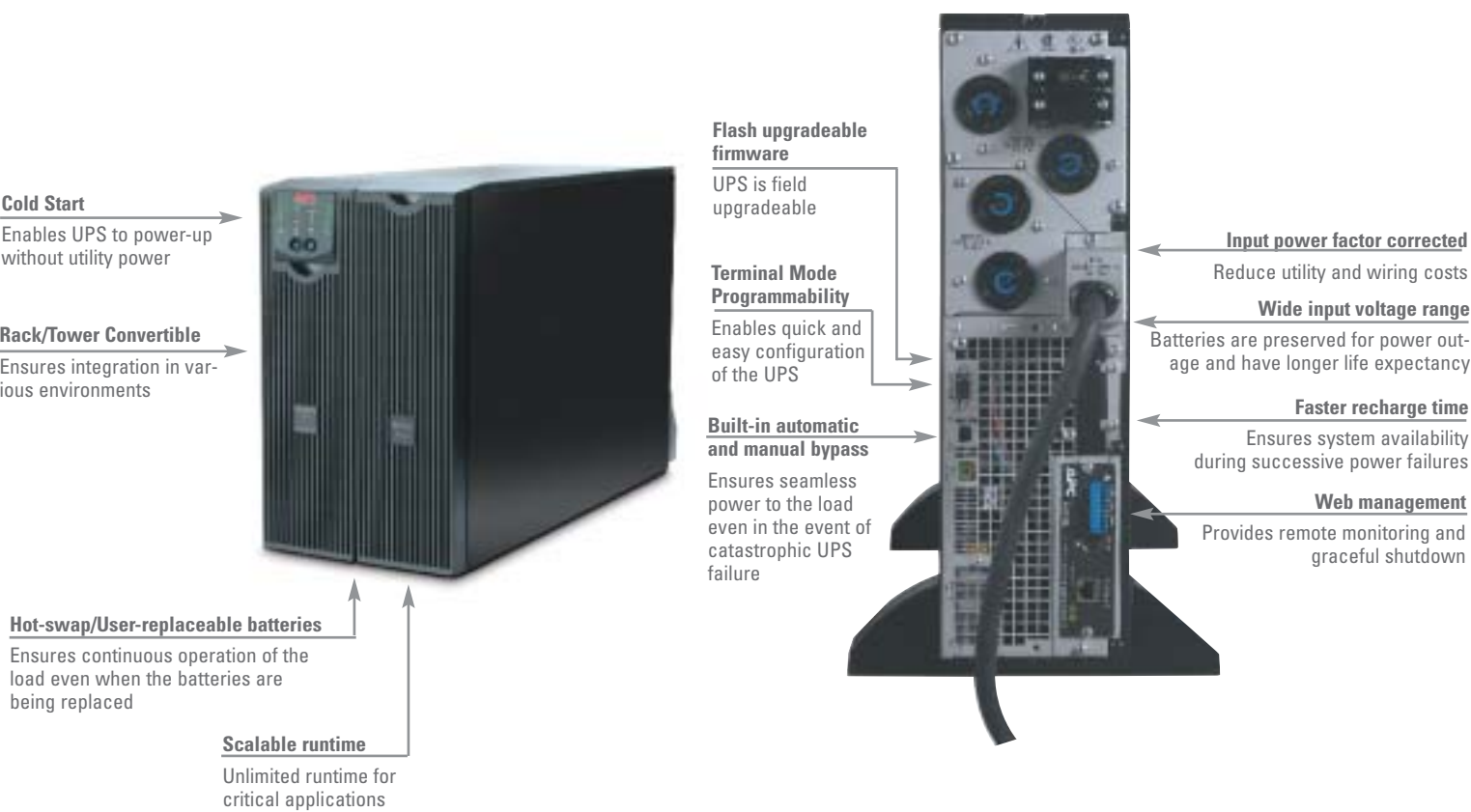
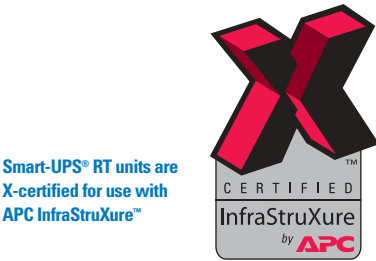
Input power factor correction Minimizes installation costs by enabling the use of smaller generators and cabling.

Generator compatible Ensures clean, uninterrupted power to the loads in the event of an extended power outage

Cold-start capable Provides temporary battery power when the utility power is out.

Resettable circuit breakers Enables quick recovery from UPS overload events.

Safety-agency approved Ensures product testing and approval to work safely with the connected loads and within the environment.



Smart-UPS® RT Options

BATTERY PACKS

An unlimited number of rack/tower convertible external battery packs can be added to achieve desired levels of runtime. Smart-UPS RT battery packs are hot-swappable so you never have to bring down your mission critical loads to service the unit.

SURT192XLBP Battery pack for APC Smart-UPS RT 3000/5000/7500/10,000 VA models, 3U inside the rack

SURTA48XLBP Battery pack for APC Smart-UPS RT 1500/2000VA models, 2U inside the rack

RAIL KITS

Enables a Smart-UPS RT UPS, battery-pack and isolation transformer to be installed in either a 2-post rack or 4-post 19" rack.

AP9625 2-post rail-kit for Smart-UPS RT

SURTRK 4-post rail-kit for Smart-UPS RT 1500/2000VA models and SURTA48XLBP

SURTRK2 4-post rail-kit for Smart-UPS RT 3000/5000/7500/10,000VA models, SURT192XLBP, and SURT003

SERVICE BYPASS UNITS

Rack-Mount, Wall-Mount and Tower Service Bypass Panels featuring quick transfer time and Wraparound service bypass.

SBP3000 Designed for Smart-UPS RT 3000VA, 120V models. 2U inside the rack, hardwire input and output.

SBP5000RMT2U Designed for Smart-UPS RT 3000/5000VA, 208V models. 2U inside the rack, (2) x L6-20R and (2) L6-30R output

SBP10KRMT4U Designed for Smart-UPS RT 7500/10,000VA, 208V models, 4U inside the rack, (3) x L6-20R and (3) L6-30R output

OUTPUT STEPDOWN/ ISOLATION TRANSFORMER

Output stepdown/isolation transformer for use with Smart-UPS RT 3000/5000/7500/10,000VA models. Steps down 208V to 120V.

SURT003 Tower stepdown transformer, rated at 5000VA, rack-mountable with rail-kit (SURTRK2), 3U inside rack

SURT005 Rack optimized stepdown transformer, rated at 4900VA, 2U inside rack

P D U s

Power distribution for rack-mount equipment.

AP9561 Basic rack PDU, 208V input and output, Input plug: NEMA L6-30P Output Receptacles: 12 X IEC 320 C13

AP9566 Basic rack PDU, 208V input and output, Input plug: NEMA L6-20P Output Receptacles: 12 X IEC 320 C13

AP7622 Metered rack PDU, Zero U, 208V input and output. Input plug NEMA L6-20P, Output receptacles 6 x L6-20R

AP9570 Basic rack PDU, 208V input and output, Input plug: NEMA L6-30P Output Receptacles: 4 X IEC 320 C19

SURT007 Output Hardwire Kit, for use with Smart-UPS RT 3000/5000VA models. Output: Hardwire terminal block.

AUTOMATIC TRANSFER SWITCH

Provides redundant power to single-corded equipment.

SU045X163 208V input and output, Input plug: 2 x NEMA L6-30P Output Receptacles: NEMA L6-30R

SU045-1 208V input and output, Input plug: 2 x NEMA L6-20P Output Receptacles: NEMA L6-20R

AP7750 120V input and output, Input plug: 2 x 5-15P, Output Receptacles: 8 x 5-15R

Technical Specifications	SMART-UPS RT 1500	SMART-UPS RT 2000	SMART-UPS RT 3000 (120V)	SMART-UPS RT 3000 (208V)	SMART-UPS RT 5000	SMART-UPS RT 7500	SMART-UPS RT 10000
OUTPUT							
Capacity	1.5kVA/1.05kW	2kVA/1.4kW	3kVA/2.1kW	3kVA/2.1kW	5kVA/3.5kW	7.5kVA/6kW	10kVA/8kW
Output Voltage	120VAC			208, 240 VAC (user selectable), Single Phase			
Output Voltage Regulation	1% static, 5% dynamic						
Output Connection	(6) 5-15		(6) 5-15, (2) 5-20	(2) L6-20R, (2) L6-30R (120VAC available w/ step-down transformer)		(2) L6-20R, (2) L6-30R, hardwire output terminal block (120VAC available w/ step-down transformer)	
Efficiency at full load (typical)	87%	90%	86%	91%	92%	92%	92%
Output frequency (sync'd to mains)	50 or 60 Hz, +/- 3Hz (auto-select default) [or 50 or 60 Hz +/-0.1Hz (user selectable)]						
Bypass	Automatic		Automatic/Manual				
Overload Capacity (on-line)	105% - infinite, 125% - 1 min, 150% - 30 seconds						
Output Voltage Distortion	<2% for linear loads, <5% for non-linear loads						
Crest Factor	3:1						
Heat Dissipation (Watts), nominal line	90	140	310	192	305	450	650
INPUT							
Nominal Input Voltage	120VAC			208/240VAC (Single Phase)			
Input Frequency	45-65 Hz Auto-selecting						
Input Connection	5-15P	5-20P	L5-30P	L6-30P		Hardwire	
Input Voltage Range	90-150VAC (at full load), 50-150VAC (at half load)			160-280VAC (at full load), 100-280VAC (at half load)			
Input Power Factor (full load)	>.95						
BATTERIES							
Battery Type	Maintenance-Free, Sealed Lead-Acid, valve regulated, 3-6 years typical lifetime						
Recharge Time to 90% (internal battery)	< 3 hours						
Runtime with internal battery (full/half load)	8/22min	5/15min	15/31min	15/31min	5/16min	7/19min	4/13min
Runtime with one additional battery pack (full/half load)	39min/1hr24min	27min/1hr	1hr/2hr9min	1hr/2hr9min	27min/1hr4min	16min/39min	11min/28min
Runtime with two additional battery packs (full/half load)	1hr11min/2hr30min	50min/1hr49min	1hr48min/3hr48min	1hr48min/3hr48min	50min/1hr46min	28min/1hr3min	20min/46min
COMMUNICATION AND MANAGEMENT							
Interface Port	(1) USB, (1) Serial Communication		(1) Serial Communication		(1) RJ-45 10/100 Base T Connection; (1) Serial Communication		
Management Software Included	PowerChute Business Edition for Windows NT/2000/XP, Novell Netware, Solaris and Linux Red Hat, PowerChute Plus for HP-UX and IBM-AIX (Smart-UPS RT 5000 also ships with PowerChute Network Shutdown)					PowerChute Network Shutdown for Windows NT/2000/XP, Novell Netware, Solaris, HP-UX, Red Hat Linux and IBM AIX	
Web/SNMP Management Card	optional				included		
PHYSICAL							
Dimensions HxWxD (cm and inches)	7x43x56 cm, 3x17x22 in		13x43x66 cm, 5.1x17x26 in			26x43x66 cm, 10.4x17x26 in	
U Height	2		3			6	
Weight net/shipping (lbs)	61/69		120/140			244/284	
ENVIRONMENT							
Operating Conditions	3000 m max elevation; 0-95% non-condensing humidity; 0-40 (deg) C						
Storage Conditions	15000 m max elevation; 0-95% non-condensing humidity; -20 to 60 (deg) C						
Audible noise at 3 feet (1 m)	< 45 db		< 55 db				
WARRANTY & CONFORMANCE							
Approvals	UL-1778, FCC Part 15 Class B		UL-1778, FCC Part 15 Class A				
Warranty	2 years, repair or replace, optional on-site warranties available, optional extended warranties available						
ORDERING GUIDE							
Tower Model Part #	SURTA1500XL	SURTA2000XL	SURTA3000XL	SURT3000XLT	SURT5000XLT	SURT7500XLT	SURT10000XLT
Rack-mount Model Part #	SURTA1500RMXL	SURTA2000RMXL	SURTA3000RMXL	SURT3000RMXLT	SURT5000RMXLT	SURT7500RMXLT	SURT10000RMXLT
Tower Model Part # - 208/120V output	N/A			SURT3000XLT-1TF3	SURT5000XLT-1TF3	SURT7500XLT-1TF3	SURT10000XLT-2TF3
Rack-mount Model Part # - 208/120V output	N/A			SURT3000RMXLT-1TF5	SURT5000RMXLT-1TF5	SURT7500RMXLT-1TF5	SURT10000RMXLT-2TF5
Tower Model with 1 additional Battery Pack	SURTA1500XL (+) SURTA48XLBP	SURTA2000XL (+) SURTA48XLBP	SURTA3000XL (+) SURT192XLBP	SURT3000XLT (+) SURT192XLBP	SURT5000XLT (+) SURT192XLBP	SURT7500XLT (+) SURT192XLBP	SURT10000XLT (+) SURT192XLBP
Rack-mount Model with 1 additional Battery Pack	SURTA1500RMXL (+) SURTA48RMXLBP	SURTA2000RMXL (+) SURTA48RMXLBP	SURTA3000RMXL (+) SURT192RMXLBP	SURT3000RMXLT (+) SURT192RMXLBP	SURT5000RMXLT (+) SURT192RMXLBP	SURT7500RMXLT (+) SURT192RMXLBP	SURT10000RMXLT (+) SURT192RMXLBP

APC's quality system is certified by ISO 9002 standards



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APC Smart-UPS® RT is a family of high-density performance UPS for voice and data networks, medical lab and light industrial applications. Double conversion on-line topology protects your data by supplying reliable, network-grade power with scalable run time. An unlimited number of matching battery packs can be added to comply with aggressive runtime demands of “always-on” business critical systems. Rack optimized models are an ideal choice for space constrained environments. With capacity up to 10 kVA in 6U, users can support power hungry blade servers or heavily loaded equipment racks. Customers looking for extremely tight voltage and frequency regulation, internal bypass, and input power factor correction will find them in the Smart-UPS RT.

208/120V

Smart-UPS® RT

Performance power protection with scalable runtime for space-constrained computer rooms and voice and data networks

